

सरदार वल्लभभाई राष्ट्रीय प्रौद्योगिकी संस्थान, सूरत
**Sardar Vallabhbhai
National Institute of Technology, Surat**

NEWSLETTER
April 2024 - March 2025

RESEARCH AND CONSULTANCY



Office of the Dean (R&C)
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TABLE OF CONTENTS

- ▶ MESSAGE FROM THE DIRECTOR
- ▶ MESSAGE FROM THE DEAN (R&C)
- ▶ OUR CORE TEAM
- ▶ BROAD RESEARCH AREA
- ▶ SPONSORED RESEARCH PROJECTS
- ▶ CONSULTANCY PROJECTS
- ▶ INTELLECTUAL PROPERTY (IP)
- ▶ ACTIVITIES AND EXPERT LECTURES ORGANIZED BY R&C
- ▶ MEMORANDUM OF UNDERSTANDING (MOU)
- ▶ NEWS COVERAGE OF THE INSTITUTE RESEARCH ACTIVITIES



MESSAGE FROM THE DIRECTOR.....

PROF. (DR.) ANUPAM SHUKLA

I am pleased to introduce this edition of the Research and Consultancy (R&C) Newsletter published by the Research & Consultancy Section of SVNIT, Surat. The R&C Section serves as the central hub for all research and consultancy activities carried out across the various departments of our institute.

This newsletter is designed to give potential future faculty members, collaborators and other stakeholders a clear understanding of the Institute's ongoing research and development efforts. It reflects our strong commitment to growing as a globally recognised centre of academic excellence. It also provides an excellent platform to showcase the achievements of our faculty members who continue to contribute meaningfully through their innovative, impactful, and socially relevant research.

Within this publication, we highlight the Institute's diverse research capabilities and the significant contributions we have made over the years. This newsletter is therefore valuable not only for the Institute but also for industry partners and research laboratories. It offers essential information that can help them understand and make effective use of the research expertise available at SVNIT.

I would like to express my sincere appreciation to all the faculty members for their efforts in sharing and documenting the research activities of SVNIT through this initiative. I hope that the research outcomes of our institute continue to reach a wide audience including universities, research organisations and industries across India and around the world. My heartfelt congratulations to the Dean (R&C) and her team for compiling this publication with such care and dedication. I look forward to seeing future editions of this newsletter and the progress they will highlight.

MESSAGE FROM THE DEAN (R&C).....

It gives me great pleasure to write this message for the Annual Newsletter of the Research & Consultancy Section at the institute. SVNIT is committed to fostering a culture of excellence, innovation, and collaboration in research and consultancy. As the Dean R&C, I am committed to leading our efforts in transforming ideas into impactful solutions.

"Innovation distinguishes between a leader and a follower." – Steve Jobs. This quote perfectly encapsulates our vision at SVNIT. We strive to push the boundaries of knowledge and creativity, exploring uncharted territories to address the complex challenges of our world.

Our dedicated faculty and talented students are at the forefront of cutting edge research across a multitude of disciplines, from engineering and technology to social sciences and humanities. Our consultancy services are designed to harness our academic expertise and state-of-the-art infrastructure to provide innovative solutions for industry and society. We collaborate with industries, government agencies, and non-profit organizations, delivering high-quality, actionable insights and services that drive progress and development.

It is often said that diagrams and pictures convey information more effectively than words. For engineers, statistics hold a similar power, often speaking louder than detailed descriptions. The meticulously compiled statistics in this letter affirm this notion. They reflect the hard work, dedication, and academic excellence of the SVNIT faculty members. The impressive volume of consultancy assignments, the number and quality of sponsored research projects, the patents, and design registrations achieved—all serve as a testament to the overall brilliance of the faculty.

Let us unite in our efforts to transform SVNIT into a center of groundbreaking research and a shining example of academic and professional excellence.



PROF. JIGISHA K. PARIKH
DEAN (R&C)
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CURRENT CORE TEAM



PROF. JIGISHA K PARIKH
DEAN (RESEARCH & CONSULTANCY)



ASSOCIATE DEAN (R & C) - IPR

PROF. PIYUSH N. PATEL

E Mail Id: adean_rnc-ipr@svnit.ac.in

Responsibility: Establishment of the IPR Cell, IPR (Patents, Copyrights, Design Registration etc.) related activities, MoUs, CIDER, ICSRB & ASHINE, Research Park and SSIP related activities and closing-on the Seed Grant Phase – I.



ASSOCIATE DEAN (R & C) - CRP

DR. NAMRATA JARIWALA

E Mail Id: adean_rnc-crp@svnit.ac.in

Responsibility: The consultancy projects from initial registration to final completion, including status monitoring, dispute resolution etc. Unnat Bharat Abhiyan, all receipt, GST, Tax deduction, settlement with CA, all bank account reconciliation



ASSOCIATE DEAN (R & C) - SRP

DR. ABHISHEK ACHARYA

E Mail Id: adean_rnc-srp@svnit.ac.in

Responsibility: All the activities related to the Sponsored Research Projects - registration, the administrative content of sponsored project proposals, budgetary estimates, actual project sanctions, progress reports, utilization statuses, completion certificates, POH distribution, Physical Stock Verification on project closure etc. RnC Website, Calendar, Newsletter and other publicity related matters of the Dean (R&C) office, Seed Grants to the Assistant Professors, Phase - II.

BROAD RESEARCH AREAS OF THE DEPARTMENTS

Department of Artificial Intelligence

Machine Learning, Deep Learning, Cognitive Computing, Natural Language Processing, Generative AI, Responsible AI, Biometrics, Computer Vision, Robotics, Quantum Computing, Cloud Computing, IoT, Cyber-Physical Systems, Blockchain, Augmented Reality.

Department of Chemical Engineering

Advanced Separation, Biochemical Processes, Catalysis, Computational Fluid Dynamics, Drug Delivery, Electrochemical Engineering, Energy Storage, Green Chemistry, Membrane Technology, Nanomaterials, Process Modeling, Renewable Energy, Wastewater Treatment, Sustainable Engineering.

Department of Chemistry

Synthetic Organic Chemistry, Inorganic and Supramolecular Chemistry, Catalysis, Nanomaterials, MOFs and COFs, Polymer Chemistry, Drug Design, Biomarkers, Computational Chemistry, Environmental Chemistry, Photochemistry, Bioimaging, Sensors.

BROAD RESEARCH AREAS OF THE DEPARTMENTS

Department of Civil Engineering

Construction Management, Sustainable Infrastructure, Building Information Modeling, Environmental Engineering, Water and Wastewater Treatment, Air Pollution, Solid Waste Management, Climate Change, Geotechnical Engineering, Seismic Hazard, Structural Engineering, Earthquake Engineering, Structural Health Monitoring, Transportation Engineering, Urban Planning, Smart Cities, Water Resources, Flood Mitigation, Groundwater Hydrology.

Department of Computer Science and Engineering

Artificial Intelligence, Machine Learning, Deep Learning, Reinforcement Learning, Explainable and Ethical AI, Algorithms and Complexity, Bioinformatics, Cyber Security, Cryptography, Blockchain, Secure Systems, Computer Networks, Distributed Systems, Cloud and Edge Computing, Computer Architecture, Embedded Systems, Computer Vision, Image and Video Analytics, Databases, Big Data Analytics, High Performance Computing, Parallel Computing, Natural Language Processing, Large Language Models.

Department of Electrical Engineering

Power Electronics, Electric Drives, Electric Vehicles, Renewable Energy Systems, Photovoltaic Systems, Smart Grid, Microgrid, Power Quality, HVDC and FACTS, Power System Stability, Energy Management Systems, Grid Integration, Cybersecurity of Smart Grid, Control Systems, Optimal and Stochastic Control, Automation.

BROAD RESEARCH AREAS OF THE DEPARTMENTS

Department of Electronics Engineering

Wireless and 5G Communication, Optical and Microwave Systems, Massive MIMO, Cognitive Radio, Quantum Communication, IoT and Industrial IoT, Drone Technology, VLSI and Embedded Systems, Semiconductor Devices, RISC-V and System-on-Chip Design, Hardware Accelerators for Artificial Intelligence, Signal and Image Processing, Biomedical Signal Processing, Computer Vision, Antenna and RF Systems, Energy Harvesting..

Department of Humanities and Social Sciences

Postmodern Fiction, Indian English Literature, Feminist Literature, Diaspora Studies, English Language Teaching, Phonetics, Linguistics, Cultural Studies.

Department of Management Studies

Marketing, Finance, Financial Markets, Fintech, Financial Time Series Analysis, Techno-Entrepreneurship, Women and Social Entrepreneurship, Consumer Behaviour, Green Supply Chain Management, Sustainability, ESG, Industry 4.0, Green Human Resource Management, Online Learning.

BROAD RESEARCH AREAS OF THE DEPARTMENTS

Department of Mathematics

Mathematical Analysis, Algebra, Mathematical Modeling, Numerical Methods, Computational Mathematics, Mathematical Statistics, Operations Research, Fluid Dynamics, Computational Biology, Bioinformatics, Data Mining, Image Mining.

Department of Mechanical Engineering

Thermal and Fluid Engineering, Electric Vehicles, Energy Systems, Combustion, Heat Transfer, Renewable Energy, Fuel Cells, Design Engineering, Finite Element Analysis, Composite Structures, Robotics and Mechatronics, Materials Engineering, Additive Manufacturing, Welding and Metal Forming, Industry 4.0, Optimization, Supply Chain Management, Sustainable Manufacturing.

Department of Physics

Advanced Materials Physics, Condensed Matter Physics, Nanoscience, Nano-bio Physics, Plasma Physics, High Energy Physics, Nuclear Physics, Space Physics, Experimental and Theoretical Physics.

SPONSORED RESEARCH PROJECTS

The SVNIT Surat places a significant amount of importance on sponsored research, collaborative research funded by National and International agencies, and strong industrial contact. The institution features state-of-the-art labs and the necessary equipment to back up its research. Sponsored research has become a significant contributor to the development of infrastructure and enhancement of facilities in various emerging technology domains. The details of the sponsored research project during 2024-25 is as follows.

Sr. No.	Title of the Project	Name of Investigator(s)	Sponsoring Agency	Project Cost (Rs.)
1	Design of Electronic Speed Controller (ESC) for Drone	Dr. A. A. Darji	IITM DM Kurnool	250,000
2	Urban flow revolution: Unveiling the Potential of AI, Computer Vision and Cloud for design and Development of Adaptive Traffic System	Dr. Lataben J. Gadhvi (IT Engg, Govt. Polytechnic, Gandhinagar), Dr. Dipti Rana	STEM, Technical Education Gandhinagar	495,000
3	Information Security Education & Awareness (ISEA) Project Phase- III	Dr. Sankita J. Patel, Dr. Bhavesh N. Gohil	Ministry of Electronics and Information Technology	4,780,000
4	Development of a Pulsating Heat Pipe-based Hybrid Pyramid-type Solar Still for Efficient Desalination	Dr. Y. Naresh Dr. J. Banerjee	SERB (ANRF)	3,173,808
5	Investigation on Explosion Dynamics of Hydrogen-Rich fuels with Parametric Variation of Fuel Components and Obstacles	Dr. Nikhil A. Baraiya Dr. Meenatchidevi Murugesan (IIT Dharwad) Dr. Sudipto Mukhopadhyay (IIT Jodhpur)	SERB (ANRF)	61,93,176
6	Development of Thermal Gradient assisted Self-positioning Laser Head for Photothermal Therapy Application	Dr. Vipul M. Patel Dr. Hement B. Mehta Dr. Sumit Khare	SERB (ANRF)	31,24,088

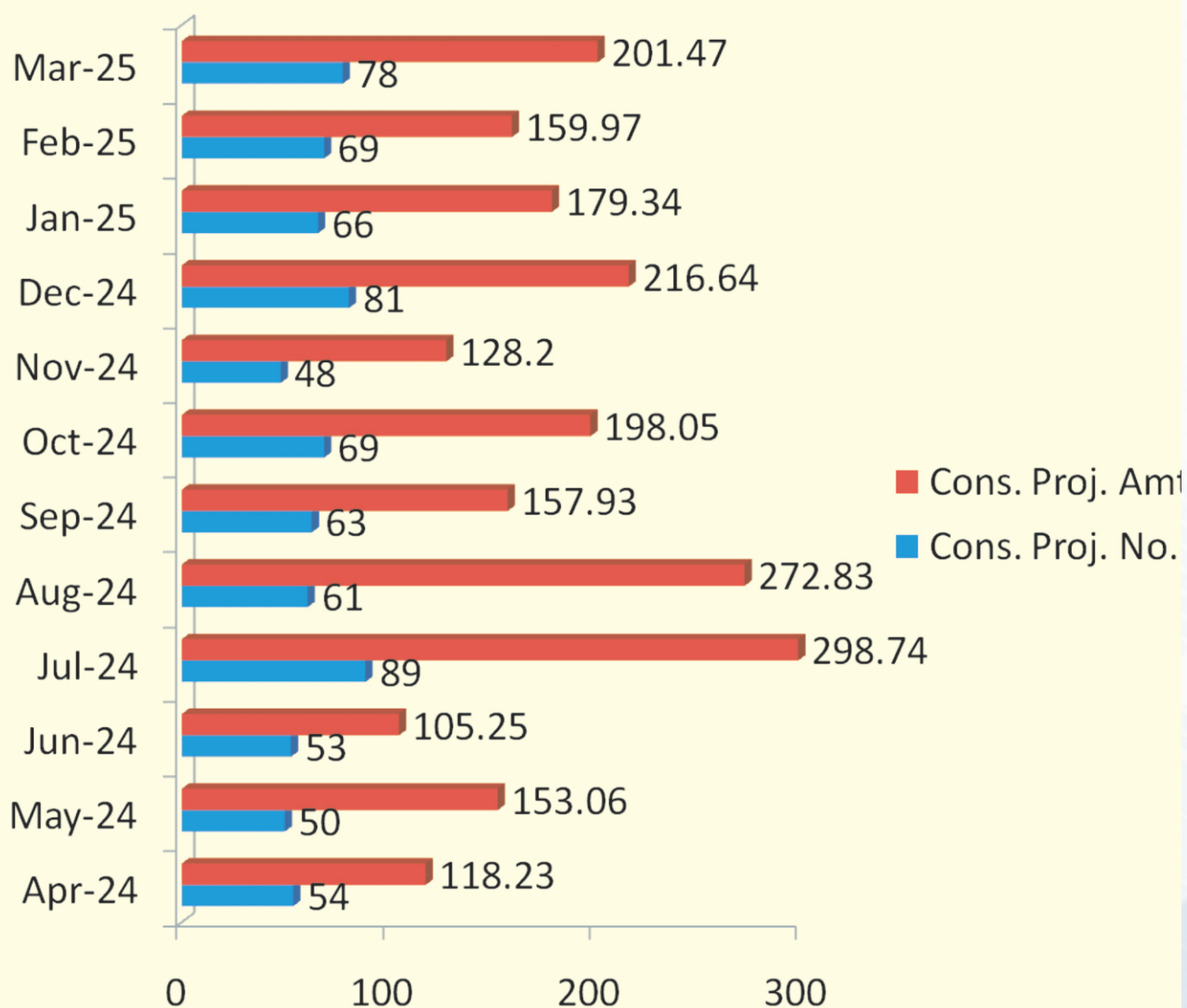
Sr. No.	Title of the Project	Name of Investigator(s)	Sponsoring Agency	Project Cost (Rs.)
7	Development of Artificial Intelligence Controlled Internal Cylindrical-Electronic Magnetic Abrasive Machining (IC-EMAM) system	Dr. Ram Singar Yadav Dr. Harit K. Raval	ARDB, DRDO	38,75,816
8	Strengthening, Modernisation and Up-gradation of the Existing Laboratory Facilities to Develop Advance Welding Research Centre for Indigenous Industry-Academia R&D	Dr. V. D. Kalyankar Dr. S. N. Pandya Dr. Mukund H. Bade	Industries Commission erate, Gandhinagar	2,00,00,000
9	Determination of Higher Order Deformations of Atomic Nuclei by Quasi-elastic Scattering	Dr. Dipika B. Patel	CSIR	26,94,720
10	Development of Correlation between Charpy Value and Fracture Toughness for Tungsten Heavy Alloy (WHA)	Dr. Biranchi N. Sahoo Dr. Jyoti Meghani Dr. Raju Prasad Mahto	ARMREB, DRDO	88,19,316
11	Towards a Circular Economy: Exploring Nano-Technology, Plastics & Additive Manufacturing for Sustainable Concrete	Dr. Kaustav Sarkar (IIT Mandi) Dr. KashyapKumar A.Patel Dr. Lukman Mansuri (Nirma Univ.)	Ministry of Education (SPARC)	44,16,000
12	Waterless Anti-Freezing Eutectogel: De Novo Platform for Protection of Skin against Cold-Induced Injuries	Dr. Naved I. Malek	BRNS	33,71,550
13	Development of IoT Edge Computing Applications using Optimized NTV standard Cells with OPENLANE	Dr. Abhishek Acharya	Google Asia Pacific Pte Ltd., Singapore	25,58,100

Sr. No.	Title of the Project	Name of Investigator(s)	Sponsoring Agency	Project Cost (Rs.)
14	NAVIC VAVAJ: NAVIC Enabled UAV With Anti-Jamming	Dr. Shweta Shah Dr. Upena Dalal	ISRO	30,04,720
15	Calculating Compressive Strength and Permeability of Concrete via Microstructural Features	Dr. B. Kondraivendhan Dr. C. D. Modhera	NBCC (India) Pvt. Ltd	1,01,89,857
16	UAVs equipped with AI & ML for Rescue Operations in Flood-affected Areas	Dr. Pratha Das, Dr. Ritu Tiwari Dr. Abhilasha Chaudhuri	NMIEPS Tihaan Foundation	11,96,720
17	Impact of Climate Change on Water Resources & River Morph-Dynamics of Narmada Basin	Dr. P. V. Timbadiya Dr. P. L. Patel	Ministry of Jal Shakti (Water Resources	1,02,65,200
18	Highly Flexible, Self-Recoverable & Self-Lubricated Ionic Liquid-infused Super-Hydrophobic MOF-based Coating for Aerospace Applications	Dr. Naved I. Malek Dr. Bharat Z. Dholakia	DRDO	60,80,249

CONSULTANCY PROJECTS

Consultancy Project means a consultancy assignment/job given by an outside agency to a faculty of the Institute for work within a mutually agreed scope. The Institute has expertise in various research areas to provide knowledge and intellectual inputs which are of interest to the industry and other organizations. A consultancy project/task/work is one where faculty and research staff provide knowledge and intellectual inputs to industry or other organizations (within India and abroad), primarily for their purposes. During the F.Y. 2024-25, total 781 Consultancy Projects were awarded worth of Rs. 21,89,71,972.

NUMBER OF CONSULTANCY PROJECTS AND AMOUNT



CONSULTANCY PROJECTS

LIST OF MAJOR CLIENTS

- ▶ Surat Municipal Corporation, Surat (SMC)
- ▶ Surat Urban Development Authority, Surat (SUDA)
- ▶ Ahmedabad Municipal Corporation, Ahmedabad (AMC)
- ▶ Ahmedabad Urban Development Authority, Ahmedabad (AUDA)
- ▶ Gujarat Pollution Control Board, Gandhinagar (GPCB)
- ▶ Geo Designs & Research (P) Ltd., Vadodara
- ▶ National Rural Infrastructure Development Agency, New Delhi (NRIDA)
- ▶ National Highways Authority of India (NHAI), PIU-Bharuch
- ▶ Veer Narmad South Gujarat University (VNSGU), Surat
- ▶ U. P. Projects Corporation Limited, Lucknow
- ▶ Urban Ring Development Corporation Limited, Surat
- ▶ Road & Building Department, Gujarat
- ▶ Andaman Public Works Department, Port Blair
- ▶ Central Designs Organizations, Narmada Water Resources, Water Supply and Kalpasar Department, Gandhinagar
- ▶ Unique Construction, Surat
- ▶ NBCC (India) Limited
- ▶ Montecarlo Limited
- ▶ Project Implementation Unit, Gandhinagar
- ▶ Project Implementation Unit, Surat
- ▶ Sports Authority of Gujarat, Gandhinagar
- ▶ Gujarat Urban Development Company Limited, Gandhinagar
- ▶ Multi Media Consultants Pvt. Ltd, Ahmedabad
- ▶ Kadana Division No.1, Diwada Colony, Gujarat
- ▶ Narmada Clean Tech, Bharuch
- ▶ Gujarat State Road Transport Corporation (GSRTC)
- ▶ Varaha Infra Limited, Jodhpur

INTELLECTUAL PROPERTY (IP)

The Intellectual Property (IP) is an exclusive right granted for an invention, which is a Design, Product or a Process Patent that provides, in general, a new way of doing something or offers a new technical solution to a problem. To get a patent, technical information about the invention must be disclosed to the public in a patent application.

PATENTS FILED

Sr. No.	Date of Filing	Application No.	Title of Patent	Inventor(s)
1	23.04.2024	202421031996	Hybrid U-shaped Closed-loop Geothermal Heat Exchanger for Deep Geothermal Reservoirs	Mr. Chappidi Srinivas Dr. Ankesh Kumar Dr. Jogender Singh
2	04.06.2024	202421043349	Elliptical Slit Damper Fuse for Steel Beam Column Connection	Dr. G R Vesmawala Mr. Monendra Pratap
3	12.06.2024	202421045349	Ultrasonic Assisted Rotary Tool Micro electrochemical Discharge Machining	Dr. D I Lalwani Mr. Mehul S Prajapati
4	28.06.2024	202421049603	Novel Sulfonated Carbon Catalyst from Water Hyacinth Stalks and Improved Process for Preparation Thereof	Dr. Bharatkumar Z Dholakiya Ms. Mansi Mistry Mr. Vimalkumar Prajapati
5	05.07.2024	202421051704	Method for Simultaneous Drying Cum Moisture Extraction from Herbs	Mr. Pratik Chaudhari Mr. Mohd. Zeeshan Mr. Nilesh Wakchaure Dr. Rohan Pande Mr. Ashutosh Bagde

Sr. No.	Date of Filing	Application No.	Title of Patent	Inventor(s)
6	05.07.2024	202421051705	Predictive Current Control of an Interior Permanent Magnet Synchronous Motor Drive with Minimal Angle Calculation	Dr. Kuniseti V Praveenkumar Mr. Kasoju Bharath Kumar
7	11.07.2024	202421053055	Hydrogenation of Pentose Sugar Over a Porus Catalytic System	Dr. Jigisha K Parikh Ms. Khushbu H Bhavsar
8	22.07.2024	202421055770	Multielement High Entropy Alloy using Scrap Material	Mr. Anish Shah Ms. Kulkarni Nupur Subodh Ms. Akolkar Aarohi Pravin Ms. Riya Patel Dr. Jyoti Menghani
9	27.07.2024	202421057168	An Industrial One-port Process for the Preparation of Dibenzo [b,f] [1,4] thiazepin- 1(10H)-One	Mr. Vaghasiya Mahesh D Dr. Premlata Kumari Mr. Mendapara Jigarkumar V
10	30.07.2024	202421057632	Storm Proof Vertical Axis Wind Turbine Integrated with Airfoil	Dr. Prabhansu Mr. Sarthak Nigam Mr. Het Parag Sanghvi Mr. Dhruvin H Chauhan Ms. Falguni Likhare Mr. Sunny Bagde
11	20.08.2024	202421062910	Photo-responsive Betaine based Pharmaceutically Active Ionic Liquid	Dr. Naved Malek Mr. Tapas Patel Mr. Raviraj Pansuriya
12	24.08.2024	202421064104	Novel Integration of MOF 525 and Inorganic Additives for Superior Performance of Lowcost Carbon based Perovskite Solar Cells	Dr. Jignasa V Gohel Mr. Nishantkumar Rana

Sr. No.	Date of Filing	Application No.	Title of Patent	Inventor(s)
13	24.08.2024	202421064356	A Method for Disposal and Management of Garden Waste	Dr. K D Yadav Mr. Chandrashekhar Parab Mr. Sandeep Kumar Mishra
14	28.08.2024	202421065058	System and Method to Maintain a Temperature of Water using Water as Phase Change Material	Dr. Manish K Rathod Ms. Himani Kumari
15	30.08.2024	202421065503	An Improved Process for the Preparation of Polyol from Tung Oil based Frame	Ms. Nidhi Ghanshyambhai Savani Dr. Bharatkumar Z Dholakiya
16	30.08.2024	202421065698	Low-cost Approach for Producing Custom Metal Parts by Integrating Additive Manufacturing and Sintering Process	Dr. Harshit K Dave Mr. Savan D Fefar Dr. Keyur P Desai
17	28.09.2024	202421073508	Rotating Cartidge based Friction Stir Extrusion Green Technology for Recycling of Aluminum Chips into Continues Wire	Dr. Raju Prasad Mahto Mr. Ashok Gehlot Mr. Vikram Kumar
18	30.09.2024	202421073857	Development of Cost Effective, Efficient and Green Catalytic System and Process for Conversion of CO2 for Value Added Chemicals	Dr. Jigisha K Parikh Dr. S K Sundar Mr. Mubassera M Arab
19	13.11.2024	202421087819	Aerodynamically Stable Quadrotor Design for Adaptable Commercial Solutions	Dr. Harshit K Dave Mr. Aryan P Tembhekar Ms. Ziya S Vohra

Sr. No.	Date of Filing	Application No.	Title of Patent	Inventor(s)
20	12.12.2024	202421068198	Dual Oval Shape Slit Mechanical Damper as Replaceable Component in Steel Moment Resisting Frame	Dr. G R Vesmawala Mr. Monendra Pratap
21	16.12.2024	202421099358	Novel One-Pot Solvent Free Process for Preparation of Carbonated Vegetable Oil via Polyol using Sulfonated Carbon Catalyst	Dr. Bharatkumar Z Dholakiya Ms. Mansi Mistry Mr. Vimalkumar Prajapati
22	24.12.2024	202421102795	Solar Driven Atomospheric Water Harvesting System with Integration of Desiccant Wheel and Desiccant Bed	Dr. Amit Kumar Mr. Pravesh Kumar Kushwaha
23	11.01.2025	202521002597	A Novel Sulfated Zirconia Modified Titanium Dioxide as Photocatalyst	Dr. Mousumi Chakraborty Dr. Arun Kumar Jana Ms. Megha Shriganesh Vichare
24	14.01.2025	202521003202	Electron Rich Triazine based Keto End Tautomerized Covalent Organic Framework as a Systematic Super Capacitor	Ms. Divya Dr. Ritambhara Jangir Dr. Sarita Kalla
25	16.01.2025	202421003793	Solar Powered Humidification Dehumidification Sea Water Desalination System Integrated with Desiccant Wheel and Novel Solar Water and Air Heaters	Dr. Amit Kumar Mr. Abhishek Tiwari

Sr. No.	Date of Filing	Application No.	Title of Patent	Inventor(s)
26	17.02.2025	202521013559	A Method For Fabricating Tailored Blank Using Continuous Groove Rolling (Cgr) Process	Dr. Sunil Kumar
27	21.02.2025	202521015184	Inorganic-Organic γ -Octamolybdate Hybrids for Targeted Anti cancer Applications against MiaPaca-2 and A549 Cells	Ms. Ankita Pardiwala Dr. Ritambhara Jangir
28	22.02.2025	202521015659	Hybrid Roll Bond Pv/T Heat Pump For Combined Hot Water And Power Generation	Dr. Purnanand V Bhale Mr. Nishith M Joshi Mr. Deepak Kumar Sharma Dr. Manish K Rathod Dr. Vaishak S. Dr. Rohan Pande Mr. Nilesh Wakchaure Dr. Atul Saraf Mr. Hiren J Savai

PATENTS GRANTED

Sr. No.	Grant Date	Patent No.	Title of Patent	Inventor(s)
1	24.04.2024	534606	Method for Controlling the Formation of Intermetallic Compound (Imc) in Welding of Dissimilar Metals	Dr. Vivek Kalyankar Mr. Gautam Chudasama
2	29.04.2024	535541	High-Entropy Multielement Alloy Matrix Coating Composition	Dr. Jyoti V Menghani Mr. Akash A Vyas Mr. Pringal M Patel Mr. Satish R More
3	03.05.2024	536723	Storm Proof Vertical Axis Wind Turbine	Dr. Prabhansu Mr. Yash Mandaliya Mr. Sunil Bagde Mr. Mohd Aman Sidiqqi Mr. Somdeep Bhushan
4	02.05.2024	536680	Cryogenic Pulsating Heat Pipe with Cylindrical Shell Type Condenser and Cooling Method Thereof	Dr. Hemantkumar B Mehta Mr. Kalpak Sagar Dr. H B Naik
5	08.05.2024	537215	Portable Devise and Method for Location Mapping	Dr. Shweta N Shah Mr. Mehul V Desai Mr. Darshana Jagiwal
6	21.05.2024	538816	Water Conservation Attachment for Western Style Commode	Dr. Dhananjay V Bhatt Mr. Dwij V Bhatt
7	30.05.2024	540221	Method and System for Analyzing and Visualizing Transaction Data in Blockchains	Mr. Sarvesh Harale Mr. Aman Framewala Dr. Dhiren Patel Mr. Sanket Shanbhag
8	15.07.2024	544915	Ambient Temperature Simulator	Dr. Manish K Rathod Dr. Jyoti V Menghani

Sr. No.	Grant Date	Patent No.	Title of Patent	Inventor(s)
9	15.07.2024	545513	Atmospheric Water Harvesting System based on Evacuated Tube Solar Air Heater	Dr. Amit Kumar Mr. Anshu Agrawal Mr. Abhishek Tiwari Dr. A D Parekh
10	13.08.2024	547632	Electricity Free Liquid Nitrogen Refrigeration System (NITROGENATOR) for Food Preservation	Dr. Yogendra V Kuwar
11	19.08.2024	547980	A 2d Polymeric Network of Zinc Organophosphate with 8-Membered Ring Core	Mr. Shubham Kumar Dr. Ritambhara Jangir
12	30.08.2024	549292	Method of Preparation of Metal-Organic Framework Incorporated Hollow-Fiber Membrane for Rubber Processing Wastewater Treatment Via Membrane Bioreactor	Dr. Sarita Kalla Dr. Z V P Murthy Ms. Disha H Gajipara Mr. Amol Sonawane
13	16.09.2024	550320	Apparatus for Generation of Vibrations due to Cyclic Loading	Ms. Pooja S Rao Dr. A K Desai Dr. C H Solanki
14	19.09.2024	550502	System and Method for Harvesting Water from Atmospheric Air	Dr. Amit Kumar Mr. Pravesh Kumar Kushwaha Dr. Rajesh Choudhary Mr. Anshu Agrawal
15	27.09.2024	551334	'An Inorganically Passivated Perovskite Layer, A Perovskite Solar Cell Comprising the same, and a Method of Preparation Thereof	Dr. Jignasa V Gohel Mr. Srish P Kulkarni

Sr. No.	Grant Date	Patent No.	Title of Patent	Inventor(s)
16	30.09.2024	551433	System and Method for Securing Smart Devices	Dr. Uday Pratap Rao Dr. Piyush Kumar Shukla Mr. Ankur Bang
17	30.09.2024	551432	DES Encapsulated Mil-101(Cr)/PVDF Mixed Matrix Membrane for Dye Degradation from Industrial Wastewater	Dr. Sarita Kalla Dr. Z V P Murthy Mr. Amol Vijay Sonawane Mr. Dipeshkumar Kachhadiya
18	30.09.2024	551576	Method for Synthesis of SnO ₂ Nanocatalyst using Leaf Extract of Delonix Regia	Dr. Mousumi Mukhopadhyay
19	30.09.2024	551472	A System for Providing a Three-Link Mechanism for Energy Harvesting through Speed Breakers of Vehicles	Dr. Rohit Tamrakar Mr. Kartik Prajapati Ms. Kritika Jain Mr. Tanmay Jog Mr. Anuroop Kumar Bandarupalli
20	05.11.2024	553883	Design and Development of E-Textile Antenna Bio- Sensor for Knee Effusion Diagnosis	Dr. Piyush N Patel Dr. Arpan H Shah
21	13.11.2024	554308	Synthetic Strategies of Indium (III) based MOF and Adsorptive Removal of Dyes	Dr. Ritambhara Jangir Dr. Sarita Kalla Mr. Ketan Maru
22	29.11.2024	555545	A Microwave based Method for Synthesis of Indium (III)-Based MOF	Mr. Ketan Maru Dr. Ritambhara Jangir Dr. Sarita Kalla
23	21.01.2025	558370	Cardanol based Sol-Gel Derived Polyurethane Polymer Mortar (SGPM) Composites and Process for Preparation Thereof	Dr. Bharatkumar Zaverbhai Dholakiya Ms. Nilam Gamit Dr. Y D Patil Ms. Sarde Bhagyashri

Sr. No.	Grant Date	Patent No.	Title of Patent	Inventor(s)
24	10.02.2025	559830	Hydrogenation of Pentose Sugar over a Porus Catalytic System	Dr. Jigisha K Parikh Ms. Khushbu H Bhavsar
25	10.02.2025	560228	System and Method for Facilitating Data Integration and Seamlessly Enabling Movement of Vehicles	Mr. Rajesh Chouhan Dr. Ashish Dhamaniya
26	13.02.2025	560138	Low Cost Highly Precise and User Friendly Method of Fabrication of Micro Channel without the Use of Sophisticated Instruments/Equipements	Dr. V N Lad Mr. Swapnil Kevat
27	17.03.2025	562594	Transdermal Patch for Delivery of Vitamin B12 using Hydrotrope as a Penetration Enhancer	Dr. Meghal A Desai Mr. Akash D Patel
28	28.03.2025	564329	Novel Integration of MOF 525 and Inorganic Additives for Superior Performance of Low-cost Carbon based Perovskite Solar Cells	Dr. Jignasa V Gohel Mr. Nishant kumar Rana
29	31.03.2025	564710	System for Securing Large Scale RPL Based IOT Networks	Mr. Ankur Bang Dr. Uday Pratap Rao

REGISTRATION OF DESIGN (APPLIED)

Sr. No.	Date of Filing	Application No.	Title of Design	Inventor(s)
1	08.04.2024	412983-001	Rectangular Ribbed Heaed Stud	Mr. Shingod Bharatbhai B Mr. Pradeep Kumar Verma Mr. Prakash Singh Abhiram Dr. Y D Patil
2	25.04.2024	414869-001	Dual Oval Shape Slits In Fuse For Ovel Steel Frames	Dr. G R Vesmawala Mr. Monendra Pratap
3	26.04.2024	414932-001	Elliptical Slit Damper Fuse for Steel Beam Column Connection	Dr. G R Vesmawala Mr. Monendra Pratap
4	02.05.2024	415571-001	Organic Waste Mixer	Dr. K D Yadav Mr. Pranat Jain
5	07.06.2024	419274-001	Replaceable Device with Unidirectional Arrow Slit Plates	Dr. G R Vesmawala Mr. Monendra Pratap
6	07.06.2024	419275-001	Exchangeable Fuse with Bidirectional Arrow Grooved Mechaical Damper Plates	Dr. G R Vesmawala Mr. Monendra Pratap
7	07.06.2024	419273-001	An Experimental Set Up for the Plate Impact Test to Investigate the Hugonoit Elastic Limit of High Strength Metals	Dr. Raju Prasad Mahto Dr. Krishna Kishore Mugada Mr. Ashok Gehlot Mr. Vikram Kumar
8	08.10.2024	433137-001	Coaxial Syringe with Hydrodynamic Focusing for Advanced Microfluidic Applications	Dr. S K Sundar Dr. Jigisha K Parikh Mr. Mirajbhai Savani

Sr. No.	Date of Filing	Application No.	Title of Design	Inventor(s)
9	06.01.2025	443177-001	Wind Solar Integrated Energy Generation System	Dr. Prabhansu Mr. Sarthak Nigam Mr. Dhruvin Chauhan Ms. Falguni Likhare Mr. Het Parag Sanghavi
10	07.01.2024	443332-001	Modular Auger Pyrolysis System	Dr. Prabhansu Dr. Rohan Pande Dr. Purnanand V Bhale Mr. Nitin Kumar Soni Mr. Mohd Zeeshan
11	14.01.2025	444074-001	Jacketed Syringe for Precise Fluid Temperature Control	Dr. S K Sundar Dr. Jigisha K Parikh Mr. Mirajbhai Savani
12	06.02.2025	447186-001	Compact 3D Printed Hexapod Robot with Advanced Object Detection	Dr. Rohit Tamrakar Ms. Ziya Vohra Mr. Aryan Tembhekar Mr. Sujal K
13	06.02.2025	447187-001	A Gasifier Design with Waste Heat Recovery and Swirl Nozzle Technology for RDF Gasification	Dr. Rohan Pande Dr. Prabhansu Dr. Purnanand V Bhale Mr. Mohd Zeeshan Mr. Nitin Kumar Soni

REGISTRATION OF DESIGN (GRANTED)

Sr. No.	Accepted Date	Design No.	Title of Design	Inventor(s)
1	04.04.2024	387748-001	Sludge Dewatering System	Dr. Prabhansu Mr. Nitin Kumar Soni Ms. Ritu Raj Jaif Mr. Bandhan Kumar Ms. Yashwini Meena Mr. Gautam Totiya
2	18.04.2024	406756-001	Twin U-tube Wellbore Heat Exchanger for Geothermal Energy Extraction	Mr. Chappidi Srinivas Dr. Ankesh Kumar Dr. Jogender Singh
3	17.05.2024	403190-001	Hexapod Design with Integrated Shock Absorber Leg for Rough Terrain Mobility	Dr. Raju Prasad Mahto Mr. Ashok Gehlot Mr. Amith Kumar Yadav K Mr. Vikram Kumar
4	31.05.2024	357583-001	Gas Separation Module	Dr. Z V P Murthy Mr. Amol Vijay Sonwane
5	07.06.2024	359137-001	Droplet and Segmented Flow 3D Printed Microchannel with Integration of 3D Sidewall Eelectrode	Dr. V N Lad Mr. Svapnil Kevat
6	05.07.2024	414932-001	Elliptical Slit Damper Fuse for Steel Beam Column Connection	Dr. G R Vesmawala Mr. Monendra Pratap
7	24.07.2024	415571-001	Organic Waste Mixer	Dr. K D Yadav Mr. Pranat Jain
8	25.07.2024	400825-001	Wind Turbine	Dr. Prabhansu Mr. Sarthak Nigam Mr. Het Parag Sanghavi Mr. Dhruvin H Chauhan Ms. Falguni Likhare Mr. Sunny Bagde

Sr. No.	Accepted Date	Design No.	Title of Design	Inventor(s)
9	05.08.2024	387750-001	Autonomous Underwater Vehicle for Shallow Waters	Dr. Harshit K Dave Mr. Harsh Mhatre Ms. Shrujal R Zala Ms. Nupur S Kulkarni Mr. Devanshu D Vyas
10	03.09.2024	395057-001	Multi Stage Laser Machine with Single Shaft XY Mechanism for Mass and Batch Production System	Dr. A A Shaikh Mr. Aakif Anjum Shaikh Usman Mr. Khan Kazim Khan Mohsin Khan
11	02.01.2025	433137-001	Coaxial Syringe with Hydrodynamic Focusing for Advanced Microfluidic Applications	Dr. S K Sundar Dr. Jigisha K Parikh Mr. Mirajbhai Savani
12	02.01.2025	411458-001	Star Ribbed Headed Stud	Mr. Shingod Bharatbhai B Mr. Pradeep Kumar Verma Mr. Prakash Singh Abhiram Dr. Y D Patil
13	18.01.2025	414869-001	Dual Oval Shape Slits in Fuse for Oval Steel Frames	Dr. G R Vesmawala Mr. Monendra Pratap
14	12.02.2025	443177-001	Wind Solar Integrated Energy Generation System	Dr. Prabhansu Mr. Sarthak Nigam Mr. Dhruvin Chauhan Ms. Falguni Likhare Mr. Het Parag Sanghavi

EXPERT TALKS

To enhance academic and professional development opportunities for faculty and students, several expert talks were organized:

● Fulbright Fellowship Opportunities to the U.S.

- Speaker: Mr. Ryan Pereira Regional Officer, USIEF
- Date: 19.04.2024
- Covered fellowship, research, and academic exchange opportunities under the Fulbright-Nehru Program.



● Funding Opportunities at DST

- Speaker: Shri S. K. Varshney, Ex-Head, International Cooperation Division, DST
- Date: 16.05.2024
- Focused on navigating the funding landscape for R&D and international cooperation.

● Talk on Digitizing Agriculture

- Speaker: Shri Vikas Rastogi (IAS), Principal Secretary, Higher & Technical Education, Maharashtra
- Date: 23.05.2024
- Included discussion on NEP 2020 and digitization in education and agriculture. •



● Funding Opportunities at DST

- Speaker: Dr. S. K. Singh, Director, Bureau of Indian Standards
- Date: 19.07.2024
- Focused on industry-academia collaborations for research and funding.

EXPERT TALKS

● Role of Innovation, Creativity, and IPR in Economic Development

- Speaker: Dr. Dhanpat Ram Agarwal, IPR Expert & C.A.
- Date: 25.11.2024
- Emphasized the economic importance of IPR, innovation, and human capital development.



● Seminar on Advances in Aerodynamic Design of Aerospace Vehicles



- Date: 16.12.2024
- Organized in collaboration with AR&DB (Aerodynamics Panel). Included expert sessions from DRDO, NAL, and ARDB to guide proposal writing and discuss challenges in aerodynamic system design.

● Zonal Level Gujarat STEM Quiz 3.0

- Organized in collaboration with GUJCOST and BIS, hosted at SVNIT, Surat.
- Date: 24.12.2024
- Total participation in the event was around 350 participants

● Innovation, Design, and Entrepreneurship (IDE) Bootcamp

- Date: 23rd–27th September 2024
- Participants: 364 (student teams and mentors from across India).
- Successfully organized by SVNIT and sponsored by AICTE & MIC.
- The primary aim was to nurture innovation, design, and entrepreneurial skills among student innovators and innovation ambassadors from higher education institutions across the country.



Memorandum of Understanding (MoU)

Joint research activities and joint supervision of research work. Exchange of scholars, researchers & students for research, co-authoring of scholarly and research publications, exchange of scholars, researchers, and students for seminars, conferences, workshops and other academic interaction meetings.

MoU WITH INDUSTRIES

Sr. No.	Date	MoU Signed With	Name of Focal Person	Date of Signing of MoU	Date of Expiry of MoU
1	30.04.2024	MAN-MADE TEXTILES RESEARCH ASSOCIATION (MANTRA), SURAT	Dr. A A Shaikh	01.05.2024	30.04.2026
2	24.05.2024	K P HUMAN DEVELOPMENT FOUNDATION	Dr. V A Shah	24.05.2024	23.05.2026
3	03.07.2024	SUCHI SEMICON PRIVATE LIMITED, SURAT	Dr. A D Darji	03.07.2024	02.07.2026
4	11.07.2024	LARSEN & TOUBRO LIMITED, MUMBAI	Dr. V D Kalyankar	01.07.2024	30.06.2027
5	06.08.2024	ISGEC HITACHI ZOSEN LIMITED, DAHEJ	Dr. V D Kalyankar	06.08.2024	05.08.2027

MoU WITH FOREIGN INSTITUTES

Sr. No.	Date	MoU Signed With	Name of Focal Person	Date of Signing of MoU	Date of Expiry of MoU
1	27.12.2024	ASIAN INSTITUTE OF TECHNOLOGY (AIT, THAILAND)	Dr. Bhavesh Gohil	27.12.2024	30.12.2026
2	03.01.2025	CHUNG-ANG UNIVERSITY, REPUBLIC OF KOREA	Dr. Suresh Kumar Kailasha	03.01.2025	02.01.2030
3	22.02.2025	ZSCALER INC.	Prof. Anupam Shukla (Director, SVNIT, Surat)	22.02.2025	22.02.2027

MoU WITH NATIONAL INSTITUTES

Sr. No.	Date	MoU Signed With	Name of Focal Person	Date of Signing of MoU	Date of Expiry of MoU
1	10.04.2024	INDIAN STATISTICAL INSTITUTE, KOLKATA	Prof. Anupam Shukla (Director, SVNIT, Surat)	01.04.2024	31.03.2026
2	15.04.2024	BIRLA VISHVAKARMA MAHAVIDYALAYA, VALLABH VIDYANAGAR	Dr. S M Yadav	06.12.2023	05.12.2026

Sr. No.	Date	MoU Signed With	Name of Focal Person	Date of Signing of MoU	Date of Expiry of MoU
3	21.05.2024	LARSEN & TOUBRO INSTITUTE OF PROJECT MANAGEMENT, VADODARA (L&T IPM)	Dr. D A Patel	21.05.2024	20.05.2029
4	16.01.2024	NATIONAL INSTITUTE OF PHARMACEUTICAL EDUCATION AND RESEARCH, AHMEDABAD	Dr. Smita Jauhari	18.02.2024	17.02.2026
5	18.07.2024	Dr. S & S S GHANDHY GOVERNMENT ENGINEERING COLLEGE, SURAT	Dr. S M Yadav	13.11.2023	12.11.2025
6	10.09.2024	PT. DEENDAYAL UPADHYAY MEMORIAL HEALTH SCIENCES AND AYUSH, UNIVERSITY OF CHHATTISGARH, RAIPUR	Prof. Anupam Shukla (Director, SVNIT, Surat)	10.09.2024	10.09.2026
7	20.09.2024	MINISTRY OF HOUSING & URBAN AFFAIRS, GOVT. OF INDIA	Dr. K A Chauhan	20.09.2024	19.09.2026
8	02.09.2024	INDIAN INSTITUTE OF TECHNOLOGY, JODHPUR	Prof. Anupam Shukla (Director, SVNIT, Surat)	02.09.2024	01.09.2028
9	13.09.2024	RV INSTITUTE OF TECHNOLOGY AND MANAGEMENT, BANGALORE	Prof. Anupam Shukla (Director, SVNIT, Surat)	13.09.2024	12.09.2026

Sr. No.	Date	MoU Signed With	Name of Focal Person	Date of Signing of MoU	Date of Expiry of MoU
10	20.09.2024	INSTITUTE OF CHEMICAL TECHNOLOGY, MUMBAI	Dr. Jigisha K Parikh	20.09.2024	21.10.2027
11	07.10.2024	INDIAN INSTITUTE OF TECHNOLOGY MADRAS, CHENNAI	Prof. Anupam Shukla (Director, SVNIT, Surat)	07.10.2024	06.10.2029
12	22.11.2024	MADAN MOHAN MALAVIYA UNIVERSITY OF TECHNOLOGY, GORAKHPUR	Prof. Anupam Shukla (Director, SVNIT, Surat)	22.11.2024	21.11.2026
13	05.11.2024	INDIAN INSTITUTE OF TECHNOLOGY (INDIAN SCHOOL OF MINES), DHANBAD	Dr. P. V. Timbadiya	05.11.2024	05.11.2026
14	17.12.2024	CSIR – INSTITUTE OF MINERALS AND MATERIALS TECHNOLOGY, BHUBANESWAR	Dr. B. Z. Dholakia	17.12.2024	16.12.2026
15	27.12.2024	E-INFOCHIPS	Dr. Pinal J. Engineer	27.12.2024	01.11.2026

News Coverage of the Institute Research Activities

કેંપ • દેશ કે ઉચ્ચ શિક્ષા સંસ્થાનોં કે ઉદ્યમી કૌશલ કો બઢાના હૈ કેંપ કા ઉદ્દેશ્ય एसवीएनआईटी में आईडीई बूट कैम्प में गुजरात सहित देश भर के 266 प्रतिभागी हुए शामिल

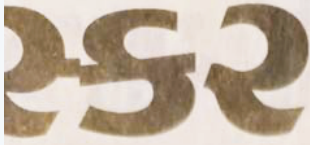
एजुकेशन रिपोर्टर | सुरत

इनोवेशन, डिजाइन और उद्यमिता (आईडीई) बूट कैम्प के दूसरा संस्करण सोमवार को लॉन्च हुआ। यह कैम्प एसवीएनआईटी सहित 9 संस्थानों में एक साथ आयोजित किया गया। आईडीई बूट कैम्प में प्रतिभागियों की कुल संख्या 266 है, जिसमें 20 मेंटर्स भी हैं। बूट कैम्प में केरल, बिहार, महाराष्ट्र, पंजाब, मध्य प्रदेश, तेलंगाना, उत्तर प्रदेश, हरियाणा, गुजरात आदि राज्यों के प्रतिभागी शामिल



देश भर के उच्च शिक्षा संस्थानों के छात्र, एंटरप्रिन्सोर के बीच नवाचार, डिजाइन और उद्यम कौशल को बढ़ावा देना है। कार्यक्रम 27 सितंबर तक चलेगा। बूट कैम्प

उद्घाटन के बाद एसवीएनआईटी गेस्ट हाउस में स्थानीय उद्घाटन का आयोजन हुआ। शिक्षा मंत्रालय के इनोवेशन सेल के मैनेजिंग एडिटर विकास वर्मा ने विचार



SVNIT ખાતે બૂટ કેમ્પ હેઠળ સ્ટાર્ટઅપ ફાઉન્ડેશનનું પેનલ ડિસ્કશન થયું સ્ટાર્ટઅપમાં કો-ફાઉન્ડર જુદા જુદા ડોમેઇનના હોવા જરૂરી, પ્રોબ્લેમનું સોલ્યુશન ઝડપી બને

સુરત। SVNIT ખાતે ચાલી રહેલા ઈનોવેશન, ડિઝાઇન અને આંતરપ્રિન્યોરશિપ બૂટ કેમ્પમાં શહેરના સ્ટાર્ટઅપ ટાઉન્ડસે પેનલ ડિસ્કશન કર્યું હતું. જેમાં એડકિટીથી જય પટેલ, અલ્પીનોથી ચેતન કાનાણી અને રેકર્ડસ ઇટકોમથી નમન સરવાળી જોડાયા હતા. તેઓએ સ્ટુડન્ટ્સને બિઝનેસમાં ટકી રહેવા માર્ગદર્શન આપ્યું હતું.



કિલો પ્રોડક્ટ બનાવી મોલમાં વેચી રિવ્યુ લો

ન કાનાણીએ કહ્યું કે, પહેલા 5થી 6 કિલો બેઝિક પ્રોડક્ટ તૈયાર કરો અને કોઈ મોલમાં જઈને તેને વેચો. પછી જુઓ કે તમારી પ્રોડક્ટ કેટલા લોકો લઈ રહ્યા છે અને પ્રોડક્ટ વિશે તેમના રિવ્યુ શો. ન્યાયી જ નમો:શ કર્ટમર બેઝની શરૂઆત થશે.

‘મે એવા સેક્ટરમાં જોબ કરી જે બિઝનેસમાં મદદ કરી શકે’

જય પટેલે કહ્યું કે, ગ્રેજ્યુએશન બાદ મે કેટલાક વર્ષો સુધી મે એવા સેક્ટરમાં જોબ કરી જે મને બિઝનેસમાં મદદ કરી શકે. કેમ કે, પહેલાથી જ બિઝનેસ કરવા માંગતો હતો પરંતુ કયા સેક્ટરમાં સ્ટાર્ટઅપ કરી શકાય નહીં હતું. જોબ દરમિયાન મને કી થયું કે, એડવર્ટાઇઝમેન્ટ ઈન્ડસ્ટ્રીમાં સ્ટોપ છે જેથી મે સ્ટાર્ટઅપ શરૂ કર્યું. હમેશા એક વધુ કો-ફાઉન્ડર હોવા જોઈએ અને તે પ જુદા ડોમેઇનના. જેથી તેઓ મુશ્કેલીઓ સમજી તેના પર મંતવ્ય આપી શકે. 07/0

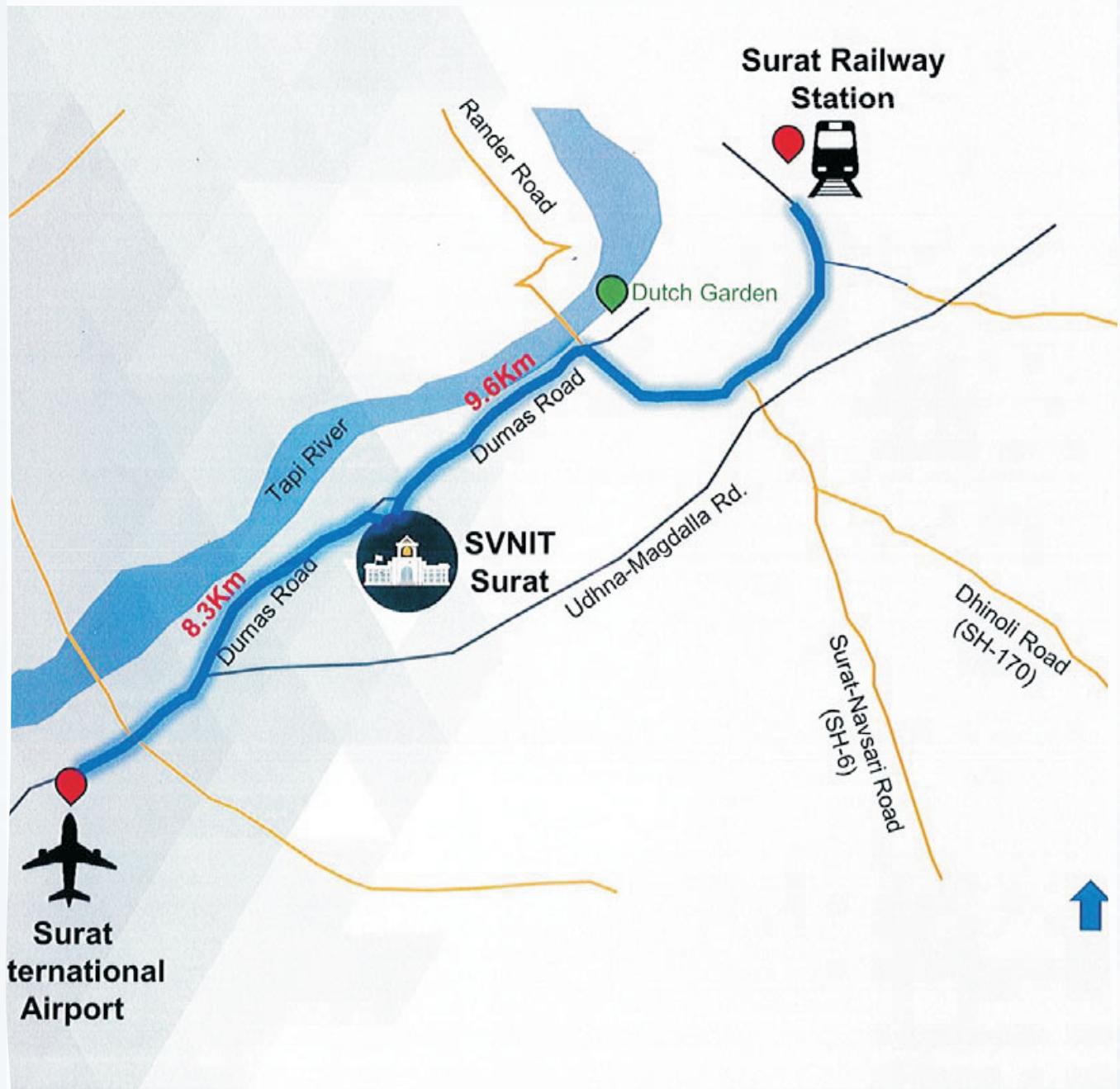
SVNIT ખાતે બૂટ કેમ્પનું આયોજન કરવામાં આવ્યું ફાઇનલ યરના વિદ્યાર્થીએ AI રોડ સેફ્ટી પ્રોજેક્ટને સ્ટાર્ટઅપમાં ફેરવ્યું



સિટી રિપોર્ટર. સુરત

SVNIT ખાતે 23થી 27મી સપ્ટેમ્બર દરમિયાન ‘ઈનોવેશન, ડિઝાઇન અને આંતરપ્રિન્યોરશિપ’ બૂટ કેમ્પનું આયોજન કરાયું છે. જેમાં દેશભરથી 270 વિદ્યાર્થીઓ ભાગ લઈ રહ્યા છે. બૂટ કેમ્પના પ્રથમ દિવસે 11 સ્ટાર્ટઅપ્સ ભાગ લીધા હતા. જેમાં AI આધારિત રોડ સેફ્ટી માટેના ઈન્ટેલિજન્ટ ચાર્જિંગ

સોલ્યુશન જેવા સ્ટાર્ટઅપ રજૂ કરાયા હતા. વર્ષ 2022માં પાસ આઉટ થયેલા જેનીશ ચૌધરીએ તેના ફાઇનલ યરના પ્રોજેક્ટને જ સ્ટાર્ટઅપમાં ફેરવી દીધો છે. તેણે AI આધારિત રોડ સેફ્ટીનો સર્વે કરતી સિસ્ટમ બનાવી છે. જે ગુગલ મેપ્સ આધારે અને એક્સિડન્ટ પોઇન્ટના આપેલા ડેટા પ્રમાણે રોડ સેફ્ટીને ધ્યાને લઈ રસ્તાઓમાં શુ ફેરફાર કરવા તે વિશે માહિતી આપે છે.



SVNIT, SURAT



CONTACT US

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